K023389

Premarket Notification 510(k) **Porta Geo Ti**

5. 510 (k) Summary

DEC 0 6 2002

Submitter of 510(k): Wieland Dental + Technik GmbH & Co. KG
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Date of Summary: 2002-10-05

Trade name: Porta Geo Ti

Classification name: Alloy, gold based, for clinical use
Product code: EJT
C.D.R section: 872.3060
Classification: Class II

Legally marketed equivalent device: Argedent 77PF
510(k) number: K 935507

Device description

Porta Geo Ti is an extra-hard gold-platinum ceramic alloy with high contents of noble metals (95,4%), intended for dental technicians to fabricate dental restorations.

It has an indication which ranges from inlays/onlays and crowns up to long span bridges with two or more pontics and removable partials. It is free of copper and therefore suitable for telescopic and milling work as well as for laser welding. For this application it will be delivered in the shape of laser welding wires.

Porta Geo Ti is highly corrosion resistant and has an excellent biocompatibility. It fully complies to the international standard ISO 9693 and fulfills the essential requirements of the European directive 93/42/ECC concerning medical devices.

Porta Geo Ti can be veneered with suitable dental ceramics and with dental composites, in which the golden yellow color of the alloy provides an excellent basis for manufacturing aesthetically pleasing dental restorations.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

DEC 0 6 2002

Dr. Gerhard Polzer
Director, Regulatory Affairs
Wieland Dental + Technik GmbH & Co. KG
Schwenninger Strasse 13
D-75179 Pforzheim
GERMANY

Re: K023389
Trade/Device Name: Porta Geo Ti
Regulation Number: 21 CFR 872.3060
Regulation Name: Gold-Based Alloys and Precious Metal Alloys for Clinical Use
Regulatory Class: II
Product Code: EJT
Dated: October 05, 2002
Received: October 09, 2002

Dear Dr. Polzer,

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4613. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

Timothy A. Ulatowski
Director
Division of Anesthesiology, General Hospital,
Infection Control and Dental Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

510(k) Number (if known): K023389

Device Name: **Porta Geo Ti**

Indications For Use:

Porta Geo Ti is a gold-platinum alloy that can be used by dental technicians to fabricate dental appliances for patients.

It is intended for manufacturing

- **Inlays/ Onlays**
- **Partial crowns**
- **Crowns**
- **Short span bridges**
- **Long span bridges**
- **Removable partials**

and can be used for

- ***Telescopic and milling work***

Porta Geo Ti can be veneered with suitable dental ceramics as well as with dental-composites.

In addition Porta Geo Ti in the shape of wires, can be used for laser welding in operations in which dental alloy parts made of Porta Geo Ti are joined to form dental restorations.

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use___ OR Over-The-Counter Use___

(Per 21 CFR 801.109)

(Optional Format 1-2-96)

Robert S Betz DDS for Dr Susan Runner

(Division Sign-Off)

Division of Anesthesiology, General Hospital,
Infection Control, Dental Devices

510(k) Number: K023389